

# ETONIS<sup>®</sup> 5500 P

## Dispersible Polymer Powders

ETONIS<sup>®</sup> 5500 P is a multi-purpose dispersible polymer powder for concrete and mortar, specifically suited for concrete repair mortars, cement admixtures and renders & plasters. It is based on a hard copolymer of vinylacetate and ethylene and belongs to the product class ETONIS<sup>®</sup> P and it has a neutral effect on rheology and provides the basic properties adhesion and flexibility, giving a high degree of formulation freedom. ETONIS<sup>®</sup> 5500 P is part of our standard range, offering you the best-in-class solution for a wide variety of applications.

## Properties

- ETONIS<sup>®</sup> 5500 P makes fresh concrete easier to process and pump because it reduces the frictional forces between cement and aggregates.
- The cohesive properties of ETONIS<sup>®</sup> 5500 P increase the sedimentation stability of concrete and specialty mortars, reducing bleeding and segregation.
- ETONIS<sup>®</sup> 5500 P has a plasticizing effect and reduces the water/cement ratio without compromising the concrete's workability.
- In hardened concrete ETONIS<sup>®</sup> 5500 P improves adhesion, enhances flexural strength and increases abrasion resistance. It does not impair the concrete's high ultimate strength.
- Concrete modified with ETONIS<sup>®</sup> 5500 P seals against pressing water, shows enhanced carbonation resistance and prevents the ingress of aggressive media into the mix.
- In combination with suitable foam-control agents, ETONIS<sup>®</sup> 5500 P also increases compressive and flexural strength.
- ETONIS<sup>®</sup> 5500 P is a hard general-purpose powder and has no effect on rheological properties. It is eminently suitable for formulating compounds of high ultimate strength.
- Low emissions

## Technical data

### Specification

Property	Condition	Value	Method
Bulk density	-	490 - 590 kg/m <sup>3</sup>	DIN EN ISO 60
Ash content	1000 °C	max. 13 %	specific method
Particle size	> 400 µm	max. 4 %	DIN EN ISO 4610
Solids content	-	min. 98 %	DIN EN ISO 3251

### General Characteristics

Property	Condition	Value	Method
Appearance	-	White to light beige powder	Visual
Minimum film forming temperature	-	4 °C	DIN ISO 2115
Protective colloid / emulsifier system	-	polyvinyl alcohol	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

- Cement Admixtures
- Concrete Repair
- Renders & Plasters

## Application details

For typical application fields of ETONIS® 5500 P, refer to the section "application". Please discuss additional applications with your WACKER customer representative.

### Processing

ETONIS® 5500 P may be added in powder form either to the dry concrete mix or the fresh mixed liquid concrete. Pumping and mixing cause the polymer powder to redisperse rapidly in the gauging water.

Alternatively, ETONIS® 5500 P may first be mixed with gauging water and then added with it to the dry-mix or liquid concrete. Protracted stirring of the polymer/water mixture is apt to cause individual components to settle out, but brief mixing will produce a homogenous mixture again. The amount of ETONIS® 5500 P needed to modify concrete ranges from 2.5 - 10 wt. % relative to the quantity of cement. The amounts used in special applications such as mortar and cementitious coatings may be considerably higher. The exact amount will depend on the requirements profile.

## Additional information

If the product is used in applications other than those mentioned, the choice, processing and use of it is the sole responsibility of the purchaser. All legal and other regulations must be complied with.  
Slight color variations of the polymer granulate may occur without impairing the product's functionality.

## Packaging and storage

### Packaging

25 kg paper bags  
Big Bags or bulk on request.

### Storage

During storage, protect the product from contact with moisture. Prolonged storage at temperatures above 30 °C, especially in combination with pressure, humidity or exposure to sunlight, may result in blocking. Carefully seal any open containers and store them under suitable conditions. We recommend storing the product in a warehouse that provides cool and dry conditions. Do not store the product for more than six months, starting from the date at which it was received, unless the Certificate of Analysis contains a different date, which would take precedence. If the product is stored longer than recommended, it may still be used but users are advised to verify the properties required for the intended use.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. These are available on request from WACKER sales offices or may be downloaded from the WACKER Web site [www.wacker.com/vinnapas](http://www.wacker.com/vinnapas).

## QR Code ETONIS® 5500 P



## For technical, quality or product safety questions, please contact:

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